

What is claimed is:

1. A photo-sensor for detecting signal rays comprising:
 - a substrate;
 - 5 a light-sensitive element mounted on the substrate;
 - an encapsulation resin encapsulating the light-sensitive element;
 - a filter layer mounted on at least a surface of the encapsulation resin;
- 10 characterized in that the filter layer has a filtering effect corresponding to spectral responsivity of the light-sensitive element.
2. The photo-sensor according to claim 1 wherein the filter layer comprises a metal multilayer filter.
- 15 3. The photo-sensor according to claim 1 wherein the filter layer comprises a dielectric multilayer filter.
4. A method for manufacturing a plurality of photo-sensors comprising the steps of:
 - preparing a substrate aggregation having a plurality of divisions;
 - 20 mounting a light-sensitive element on the substrate aggregation at each division;
 - encapsulating the light-sensitive elements by encapsulating resin to form a resin layer;
 - 25 forming a filter layer on the resin layer to form a light-sensitive element aggregation; and
 - dicing the aggregation at boundaries between divisions, thereby producing a plurality of independent

light-sensitive elements.